71626/W005

PATENT COOPERATION TREATY

	_ гог						
To: OWEN, Polly C. Attn. OWEN, Polly C. P.O. Box 511	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE VRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION						
Kingsport TN 37662-5075 JUN 2 4	20 0						
EASTMAN CHEMI							
LEGAL DEPA	Date of mailing						
	(day/month/year) 22/06/2010						
Applicant's or agent's file reference	FOR FURTUER ACTION						
TGC-162513	FOR FURTHER ACTION See paragraphs 1 and 4 below						
International application No. PCT/US2010/000839	International filing date (day/month/year) 23/03/2010						
Applicant							
EASTMAN CHEMICAL COMPANY							
The applicant is basely political that the intersectional a	graph report and the written action of the International Countries						
1. X The applicant is hereby notified that the international s Authority have been established and are transmitted h	earch report and the written opinion of the International Searching erewith.						
Filing of amendments and statement under Article The applicant is entitled, if he so wishes, to amend the	19: claims of the International Application (see Rule 46):						
	is normally two months from the date of transmittal of the						
Where? Directly to the International Bureau of WIF							
	1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 338.82.70 For more detailed instructions, see the notes on the accompanying sheet.						
	2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.						
3. With regard to any protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:							
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.							
	to applicant will be notified as 300n as a decision is made.						
4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.							
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.							
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.							
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.							
See the Annex to Form PCT/IB/301 and, for details about th <i>Guide</i> , National Chapters.	e applicable time limits, Office by Office, see the PCT Applicant's						

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040 Fax: (+31-70) 340-3016

Authorized officer

Laurent Tissot

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annex B).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, International Phase, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet or sheets containing a complete set of claims in replacement of all the claims previously filed must be submitted.

Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively in Arabic numerals (Section 205(a)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1–10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1 bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the *PCT Applicant's Guide*, National Chapters.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference TGC-162513	FOR FURTHER ACTION as	see Form PCT/ISA/220 well as, where applicable, item 5 below.				
International application No.	International filing date (day/month/year	(Earliest) Priority Date (day/month/year)				
PCT/US2010/000839	23/03/2010	23/03/2009				
Applicant						
EASTMAN CHEMICAL COMPANY		<i>*</i>				
This international search report has been according to Article 18. A copy is being tra		Authority and is transmitted to the applicant				
This international search report consists of	of a total of sheets.					
It is also accompanied by a copy of each prior art document cited in this report.						
Basis of the report a. With regard to the language, the	international search was carried out on the	e basis of:				
	application in the language in which it was					
a translation of the	e international application into rnished for the purposes of international se	which is the language earch (Rules 12.3(a) and 23.1(b))				
b. This international search authorized by or notified t	report has been established taking Into acoothis Authority under Rule 91 (Rule 43.6 <i>b</i>	count the rectification of an obvious mistake is(a)).				
c. With regard to any nucleo	otide and/or amino acid sequence disclo	sed in the international application, see Box No. I.				
2. Certain claims were fou	nd unsearchable (See Box No. II)					
3. Unity of invention is lac	king (see Box No III)					
4. With regard to the title ,						
X the text is approved as su	bmitted by the applicant					
the text has been establis	hed by this Authority to read as follows:					
	·	·				
5. With regard to the abstract,						
X the text is approved as su	•	therety as it appears in Day No. IV. The applicant				
may, within one month fro	m the date of mailing of this international	thority as it appears in Box No. IV. The applicant search report, submit comments to this Authority				
6. With regard to the drawings,						
a. the figure of the drawings to be p	ublished with the abstract is Figure No					
as suggested by t	• • •	_				
<u> </u>	s Authority, because the applicant failed to					
l — — .	s Authority, because this figure better char	acterizes the invention				
b. none of the figures is to be	e published with the abstract					

INTERNATIONAL SEARCH REPORT

International application No PCT/US2010/000839

INV.	FICATION OF SUBJECT MATTER C09D7/00 C08L1/14 C09D101 C09D201/00	/14 C09D133/08 C	09D167/00				
ADD.	C09D201/00						
	o International Patent Classification (IPC) or to both national classification	cation and IPC	· · · · · · · · · · · · · · · · · · ·				
	SEARCHED ocumentation searched (classification system followed by classification)	tion symbols)					
	Minimum documentation searched (classification system followed by classification symbols) CO9D CO8L						
Documenta	tion searched other than minimum documentation to the extent that	such documents are included in the fields	searched				
Electronic d	ata base consulted during the international search (name of data ba	ase and, where practical, search terms use	ed)				
EPO-In	ternal, CHEM ABS Data						
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.				
Х	WO 2008/036274 A2 (EASTMAN CHEM (27 March 2008 (2008-03-27)	co [us])	1-18				
	page 8, line 27 - page 9, line 15 page 46, lines 1-8, 19-26						
Furth	er documents are listed in the continuation of Box C.	X See patent family annex.					
* Special ca	ategories of cited documents :	"T" later document published after the int	ernational filing date				
	A* document defining the general state of the art which is not cited to understand the principle or theory underlying the						
"E" earlier d	invention E* earlier document but published on or after the international filing date invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to						
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another elitable of the publication date o							
"O" docume	citation or other special reason (as specified) cannot be considered to involve an inventive step when the document referring to an oral disclosure, use, exhibition or other means cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled						
"P" docume	in the and						
Date of the a	ctual completion of the international search	Date of mailing of the international sea	arch report				
10) June 2010	22/06/2010					
Name and m	nailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer					
	NL ⁻ 2280 HV Rijswijk Tel. (+31–70) 340–2040, Fax: (+31–70) 340–3016	Gerber, Myriam					

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2010/000839

					1/03201	10/000839	
Patent document cited in search report		Publication date		Patent family member(s)		Publication date	
WO 2008036274	A2	27-03-2008	US	2008090960 A	1	17-04-2008	
					•		

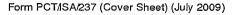
PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US2010/000839 23.03.2010 23.03.2009 International Patent Classification (IPC) or both national classification and IPC INV. C09D7/00 C08L1/14 C09D101/14 C09D133/08 C09D167/00 C09D201/00 Applicant EASTMAN CHEMICAL COMPANY 1. This opinion contains indications relating to the following items: ☑ Box No. I Basis of the opinion Box No. II Priority ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application 2. **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA: Authorized Officer Date of completion of this opinion European Patent Office see form

PCT/ISA/210

Gerber, Myriam

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	Box No. I Basis of the opinion					
1.	With regard to the language, this opinion has been established on the basis of:					
	a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).					
2.	☐ This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))					
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:					
	a. (means)					
	□ on paper					
	☐ in electronic form					
	b. (time)					
	☐ in the international application as filed					
	□ together with the international application in electronic form					
	□ subsequently to this Authority for the purposes of search					
4.	☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
5.	Additional comments:					
	Box No. V Reasoned statement under Rule 43 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement					
	Novelty (N) Yes: Claims No: Claims					
	Inventive step (IS) Yes: Claims No: Claims 1-18					
	Industrial applicability (IA) Yes: Claims No: Claims					
2.	Citations and explanations					

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to

D1 WO 2008/036274 A2 (EASTMAN CHEM CO [US]) 27 March 2008

1. Novelty - Article 33(2) PCT

The subject-matter of claims 1-18 is novel over the available state of the art because D1 does not disclose the feature e) of at least one cellulose mixed ester having a weight average molecular weight greater than 10 000.

2. Inventive step - Article 33(3) PCT

2.1. Closest state of the art

D1 can be considered as the nearest state of the art because it is directed to refinishing compositions comprising low molecular weight cellulose mixed esters (see the passages cited in the International Search Report), as it is the case in the present application.

2.2. Distinguishing feature

See 1. above.

2.3. Technical effect derived therefrom

Alleged advantages to which the Applicant merely refers without offering sufficient evidence to support the <u>comparison with the closest prior art</u> cannot be taken into consideration in determining the problem underlying the invention and therefore in assessing inventive step.

Moreover, a surprising effect demonstrated in a comparative test can be taken as an indication of inventive step. If comparative tests are chosen to demonstrate an inventive step on the basis of an improved effect, the nature of the comparison with the closest state of the art must be such that the said effect is convincingly shown to have its origin in the distinguishing feature of the invention.

In addition, in case the inventive step is based on a given technical effect, the latter should, in principle, be achievable over the whole area claimed.

It is at present not derivable from Table 2 on page 36 which sample contains a cellulose mixed ester fulfilling the requirement of feature e).

No technical effect can thus be associated to the distinguishing feature over D1.

2.4. Reformulation of the technical problem

The objective technical problem underlying the present invention is regarded as the provision of an alternative refinishing compositions comprising low molecular weight cellulose mixed esters.

2.5. Obviousness of the proposed solution

The person skilled in the art faced with this problem would be prompted to try and combine other similar components without using inventive skills.

The claimed subject-matter is therefore regarded obvious.

3. Industrial applicability - Article 33(4) PCT

The subject-matter of present claims 1-18 complies with the requirements of industrial applicability.

Possible steps after receipt of the international search report (ISR) and written opinion of the International Searching Authority (WO-ISA)

General information

For all international applications filed on or after 01/01/2004 the competent ISA will establish an ISR. It is accompanied by the WO-ISA. Unlike the former written opinion of the IPEA (Rule 66.2 PCT), the WO-ISA is not meant to be responded to, but to be taken into consideration for further procedural steps. This document explains about the possibilities.

under Art. 19 PCT

Amending claims Within 2 months after the date of mailing of the ISR and the WO-ISA the applicant may file amended claims under Art. 19 PCT directly with the International Bureau of WIPO. The PCT reform of 2004 did not change this procedure. For further information please see Rule 46 PCT as well as form PCT/ISA/220 and the corresponding Notes to form PCT/ISA/220.

Filing a demand for international preliminary examination

In principle, the WO-ISA will be considered as the written opinion of the IPEA. This should, in many cases, make it unnecessary to file a demand for international preliminary examination. If the applicant nevertheless wishes to file a demand this must be done before expiry of 3 months after the date of mailing of the ISR/WO-ISA or 22 months after priority date, whichever expires later (Rule 54bis PCT). Amendments under Art. 34 PCT can be filed with the IPEA as before, normally at the same time as filing the demand (Rule 66.1 (b) PCT).

If a demand for international preliminary examination is filed and no comments/amendments have been received the WO-ISA will be transformed by the IPEA into an IPRP (International Preliminary Report on Patentability) which would merely reflect the content of the WO-ISA. The demand can still be withdrawn (Art. 37 PCT).

Filing informal comments

After receipt of the ISR/WO-ISA the applicant may file informal comments on the WO-ISA directly with the International Bureau of WIPO. These will be communicated to the designated Offices together with the IPRP (International Preliminary Report on Patentability) at 30 months from the priority date. Please also refer to the next box.

End of the international phase

At the end of the international phase the International Bureau of WIPO will transform the WO-ISA or, if a demand was filed, the written opinion of the IPEA into the IPRP, which will then be transmitted together with possible informal comments to the designated Offices. The IPRP replaces the former IPER (international preliminary examination report).

Relevant PCT Rules and more information

Rule 43 PCT, Rule 43bis PCT, Rule 44 PCT, Rule 44bis PCT, PCT Newsletter 12/2003, OJ 11/2003, OJ 12/2003